



SEQUENCE LISTING

(1) GENERAL INFORMATION:

5 (2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH:

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

10 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (oligonucleotide)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

15 FR-patched RFB4

VH:

Full length cDNA sequence (SEQ ID no. 1):

20 GAAGTGCAGCTGCTGGAGTCTGGGGGAGGCTTAGTGCAGCCTGGA
GGGTCCCTGAGGCTCTCCTGTGCAGCCTCTGGATTCTCCTTCAGTAT
CTATGACATGTCTTGGGTTCGCCAGGCACCGGGAAAGGGGCTGGA
GTGGGTTCGCATACATTAGTAGTGGTGGTGGTACCACCTACTATCCA
GACACTGTGAAGGGCCGATTCACCATCTCCAGAGACAATGCCAAG
25 AACTCCCTGTACCTGCAAATGAACAGTCTGAGGGTGGAGGACACA
GCCTTATATTACTGTGCAAGACATAGTGGCTACGGTAGTAGCTACG
GGGTTTTGTTTGCTTACTGGGGCCAAGGGACTCTGGTCACTGTCTCT
TCA

Full length amino acid sequence (SEQ ID no. 2):

30 EVQLLES GGGLVQPGGSLRLSCAASGFSFSIYDMSWVRQAPGKGLEW
VAYISSGGGTYYPD TVKGRFTISRDN AKNSLYLQMNSLRVEDTALYY
CARHSGYGSSYGVLFA YWGQGTLVTVSS

N-terminal sense strand template DNA sequence (SEQ ID no. 3):

35 CCTGGAGGGTCCCTGAGGCTCTCCTGTGCAGCCTCTGGATTCTCCTT
CAGTATCTATGACATGTCTTGGGTTCGCCAGGCACCGGGAAAGGGG
CTGGAGTGGGTTCGCATAC

5' Primer for N-template (SEQ ID no. 4)

40 GAAGTGCAGCTGCTGGAGTCTGGGGGAGGCTTAGTGCAGCCTGGA
GGGTCCCTGAGG

3' Primer for N-template (SEQ ID no. 5)

45 GTAGGTGGTACCACCACCACTACTAATGTATGCGACCCACTCCAGC
CC

C-terminal sense strand template DNA sequence (SEQ ID no. 6):

TTCACCATCTCCAGAGACAATGCCAAGAACTCCCTGTACCTGCAAA
TGAACAGTCTGAGGGTGGAGGACACAGCCTTATATTACTGTGCAAG
ACATAGTGGCTACGGTAGTAGCTACGGGGTTTTGTTTGCT

5 5' Primer for C-template (SEQ ID no. 7)
GGTGGTACCACCTACTATCCAGACACTGTGAAGGGCCGATTACCA
TCTCCAGAGACAAT

3' Primer for C-template (SEQ ID no. 8)
10 TGAAGAGACAGTGACCAGAGTCCCTTGGCCCCAGTAAGCAAACAA
AACCCCGTAGCT

Joining site: KpnI

15 VK:

Full length cDNA sequence (SEQ ID no. 9)
GATATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCCTCTGTGGG
AGACAGAGTCACCATTAGTTGCAGGGCAAGTCAGGACATTAGCAA
20 TTATTTAAACTGGTATCAGCAGAAACCAGGTAAGGCTCCGAAACTC
CTGATCTACTACACTAGTATATTACACTCAGGAGTCCCATCAAGGT
TCAGTGGCAGTGGGTCTGGAACAGAATTTACTCTCACCATTAGCTC
CCTGCAGCCAGAAGATTTTGCCACTTACTTTTGCCAACAGGGTAAT
ACGCTTCCGTGGACGTTTCGGTGGAGGCACCAAGGTGGAAATCAAA

25 Full length amino acid sequence (SEQ ID no. 10)
DIQMTQSPSSLSASVGDRTVISCRAQDISNYLNWYQQKPGKAPKLLIY
YTSILHSGVPSRFSGSGSGTEFTLTISLQPEDFATYFCQQGNTLPWTFG
GGTKVEIK

30 N-terminal sense strand template DNA sequence (SEQ ID no. 11)
CTGTCTGCCTCTGTGGGAGACAGAGTCACCATTAGTTGCAGGGCAA
GTCAGGACATTAGCAATTATTTAAACTGGTATCAGCAGAAACCAGG
TAAGGCTCCGAAACTC

35 5' Primer for N template (SEQ ID no. 12)
GATATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCCTCTGTGGG
AGAC

40 3' Primer for N-template (SEQ ID no. 13)
ATATACTAGTGTAGTAGATCAGGAGTTTCGGAGCCTTACC

C-terminal sense strand template DNA sequence (SEQ ID no. 14)
CCATCAAGGTTCAAGTGGCAGTGGGTCTGGAACAGAATTTACTCTCA
45 CCATTAGCTCCCTGCAGCCAGAAGATTTTGCCACTTACTTTTGCCAA
CAGGGTAATACGCTTCCGTGGACGTC

5' Primer for C-template (SEQ ID no. 15)
50 CTACACTAGTATATTACACTCAGGAGTCCCATCAAGGTTCAAGTGGC
AGT

3' Primer for C-template (SEQ ID no. 16)
 TTTGATTTCACCTTGGTGCCTCCACCGAACGTCCACGGAAGCGTA
 TT

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 Joining site: SpeI A[∇]CTAG_ΔT

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 FR-Patched chimeric 1F5

VH:

Full length cDNA sequence (SEQ ID no. 17):

15
 CAGGTGCAACTGGTGGCTTCCGGGGCTGAGGTAAATAAGCCTGGG
 GCCTCAGTGAAGGTCTCCTGCAAGGCTTCTGGCTACACATTTACCA
 GTTACAATATGCACTGGGTACGGCAGCCTCCTGGAAGGGGCCTGGA
 ATGGATTGGAGCTATTTATCCAGGAAATGGTGATACTAGTTACAAT
 CAGAAATTCAAGGGCAAGGCCACATTGACTGCAGACAAATCCTCC
 AGCACAGCCTACATGCAGCTCAGCAGTCTGACATCTGAGGACTCTG
 20
 CGGTCTATTACTGTGCAAGATCGCACTACGGTAGTAACCTACGTAGA
 CTACTTTGACTACTGGGGCCAAGGCACCACTGTTACAGTCTCCTCT
 GATCA

Full-length amino acid sequence (SEQ ID no. 18):

25
 QVQLVASGAEVNKPASVKVSKASGYTFTSYNMHWVRQPPGRGLE
 WIGAIYPGNGDTSYNQKFKGKATLTADKSSSTAYMQLSSLTSEDSAVY
 YCARSHYGSNYVDYFDYWGQGTTVTVSSD

30
 N-terminal sense strand template DNA sequence (SEQ ID no. 19):
 AATAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCTGGCT
 ACACATTTACCAGTTACAATATGCACTGGGTACGGCAGCCTCCTGG
 AAGGGGCCTGGAATGGATTGGA

35
 5' Primer for N-template (SEQ ID no. 20)
 CAGGTGCAACTGGTGGCTTCCGGGGCTGAGGTAAATAAGCCTGGG
 GCCTCAGTGAAG

40
 3' Primer for N-template (SEQ ID no. 21)
 TGTAACTAGTTATCACCATTTCCTGGATAAATAGCTCCAATCCATTCC
 AGGCCCCCT

C-terminal sense strand template DNA sequence (SEQ ID no. 22):

45
 TTGACTGCAGACAAATCCTCCAGCACAGCCTACATGCAGCTCAGCA
 GTCTGACATCTGAGGACTCTGCGGTCTATTACTGTGCAAGATCGCA
 CTACGGTAGTAACCTACGTAGACTACTTTGACTAC

5' Primer for C-template (SEQ ID no. 23)

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 TGATACTAGTTACAATCAGAAATTCAAGGGCAAGGCCACATTGACT
 GCAGACAAATCCTCC

3' Primer for C-template (SEQ ID no. 24)
 TGATCAGAGGAGACTGTAACAGTGGTGCCTTGGCCCCAGTAGTCAA
 AGTAGTCTACGTA

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 Joining site: SpeI

VK:

10 Full-length cDNA sequence (SEQ ID no. 25):
 GATATTCAACTCACACAGTCTCCATCAAGTCTTTCTGCATCTGTGGG
 GGACAGAGTCACAATTACTTGCAGGGCCAGCTCAAGTTTAAGTTTC
 ATGCACTGGTACCAGCAGAAGCCAGGATCCTCCCCCAAACCCTGGA
 TTTATGCCACATCCAACCTGGCTTCCGGAGTCCCTAGTCGCTTCAGT
 15 GGCAGTGGGTCTGGGACCGAGTTCACCTCTCACAATCAGCAGTTTGC
 AGCCTGAAGATTTGCCACTTATTTCTGCCATCAGTGGAGTAGTAA
 CCCGCTCACGTTCCGGTGCTGGGACCAAGCTGACCGTTCTACGG

20 Full-length amino acid sequence (SEQ ID no. 26):
 DIQLTQSPSSLSASVGDRVTITCRASSLSFMHWYQQKPGSSPKPWIYA
 TSNLASGVPSRFSGSGSGTEFTLTISLQPEDFATYFCHQWSSNPLTFGA
 GTKLTVLR

25 N-terminal sense strand template DNA sequence (SEQ ID no. 27):
 TCAAGTCTTTCTGCATCTGTGGGGGACAGAGTCACAATTACTTGCA
 GGGCCAGCTCAAGTTTAAGTTTCATGCACTGGTACCAGCAGAAGCC
 AGGATCCTCCCCCAAACCCTGGATTTATGCCACATCC

30 5' Primer for N-template (SEQ ID no. 28):
 GATATTCAACTCACACAGTCTCCATCAAGTCTTTCTGCATCTGTG

3' Primer for N-template (SEQ ID no. 29):
 GGACTCCGGAAGCCAGGTTGGATGTGGCATAAATCCAGGG

35 C-terminal sense strand template DNA sequence (SEQ ID no. 30):
 TTCAGTGGCAGTGGGTCTGGGACCGAGTTCACCTCTCACAATCAGCA
 GTTTGCAGCCTGAAGATTTGCCACTTATTTCTGCCATCAGTGGAGT
 AGTAACCCGCTCACGTTCCGGTGCTGGG

40 5' Primer for C-template (SEQ ID no. 31):
 GGCTTCCGGAGTCCCTAGTCGCTTCAGTGGCAGTGGGTCTGGG

3' Primer for C-template (SEQ ID no. 32):
 CCGTAGAACGGTCAGCTTGGTCCCAGCACCGAACGTGAGCGG

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 Joining site: BspEI